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00027479 7590 05/06/2004

COCHRAN FREUND & YOUNG LLC  
 3555 STANFORD ROAD  
 SUITE 230  
 FORT COLLINS, CO 80525

08/09/2004 EFL0RE51 00000052 09847674

01 FC:1501 1330.00 OP  
 02 FC:1504 300.00 OP  
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Chad Laszlo

(Depositor's name)

(Signature)

8-06-04

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/847,674	05/02/2001	Youfan Gu	16458-056	5385

TITLE OF INVENTION: METHOD FOR REMOVING CONDENSABLE ALUMINUM CHLORIDE VAPOR FROM ALUMINUM ETCH EFFLUENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	08/06/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
HASSANZADEH, PARVIZ	1763	095-045000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

Cochran Freund & Young LLC  
 2 James R. Young  
 3

## 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

MKS Instruments, Inc.

Wilmington, MA

Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☒ corporation or other private group entity ☐ government

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- ☒ Issue Fee  
☒ Publication Fee  
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(Authorized Signature)

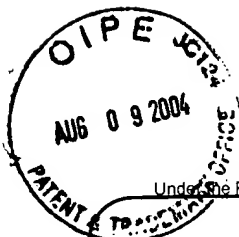
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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

2

Application Number	09/847,674
Filing Date	05/02/2001
First Named Inventor	Gu, Youfan
Art Unit	1763
Examiner Name	Hassanzadeh, Parviz
Attorney Docket Number	16458-056 (MKS1.23USG2)

### ENCLOSURES (Check all that apply)

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form                     | <input type="checkbox"/> Drawing(s)   | <input type="checkbox"/> After Allowance communication to Technology Center (TC)        |
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| <input type="checkbox"/> After Final   | <input type="checkbox"/> Petition to Convert to a Provisional Application               | <input type="checkbox"/> Proprietary Information  |
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### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	James R. Young, Reg. No. 27,847
Signature	
Date	August 6, 2004

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Chad Laszlo		
Signature		Date	8-6-04

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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